



Metcalf & Eddy

An Air & Water Technologies Company

January 7, 1999

Delivered Via Facsimile and Certified Mail
Return Receipt Requested

Mr. Sirtaj Ahmed, Remedial Project Coordinator
U.S. Environmental Protection Agency, Region 5
Office of Superfund, Remedial & Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

EPA Region 5 Records Ctr.



379525

Subject: Granville Solvents Site Removal Action Quarterly Report - January 1999

Dear Mr. Ahmed:

On behalf of the Granville Solvents Site PRP Group, Metcalf & Eddy of Ohio, Inc. respectfully submits the Quarterly Report for the Removal Action at the Granville Solvents Site. Copies have been sent to the following individuals:

Mr. Steve Acree, U.S. EPA
Mr. Mike Anastasio, U.S. EPA
Mr. Fred Myers, Ohio EPA
Mr. Joe Hickman, Manager, Village of Granville

If you have questions regarding this submittal, please contact Michael Raimonde or me at (614) 890-5501.

Respectfully,

METCALF & EDDY OF OHIO, INC.

Michael L. Raimonde

Gerald R. Myers *for*
Vice President/Project Coordinator

cc: B. Pfefferle, Chairman - GSS PRP Group
M. Raimonde, M&E

GRANVILLE SOLVENTS SITE REMOVAL ACTION QUARTERLY REPORT

JANUARY 1999

Pursuant to the requirement set forth in the Administrative Order on Consent (AOC, December 7, 1994) between the U.S. EPA and the Granville Solvents Site (GSS) Potentially Responsible Parties (PRP) Group in Section 2.5 - Reporting and the letter dated November 14, 1996, from Ms. Diane Spencer (U.S. EPA), this report constitutes the Quarterly written progress report concerning actions undertaken pursuant to the AOC.

I. PROGRESS MADE DURING REPORTING PERIOD

Source Area Groundwater Control

The groundwater pumping and treatment system operated 744 hours in October, 720 hours in November, and 728 hours in December, for a total of 2192 hours (99.3% of the total time available) during the fourth quarter of 1998. The treatment system processed approximately 11.87 million gallons of water in October, 11.49 million gallons of water in November, and 12.58 million gallons of water in December for a total of 35.94 million gallons of water for the fourth quarter of 1998. Since operation began, the system has processed more than 517.9 million gallons of water. Scheduled monthly maintenance was performed on the treatment system to ensure peak operation. This maintenance included: replacement of the bag filters, lubrication of the motors, and maintenance of the control panel and level sensors. The treatment system was acid washed on October 1, 1998 to remove build-up of iron oxide and other salts. The result was an increase in removal efficiency of VOCs compared to the results from September 1998. Small increases in effluent concentrations in the December results are believed to be due to build-up of oxides in the treatment system indicating the need for acid washing. Acid washing is planned to be conducted early next quarter.

Water samples were collected from the system's influent and effluent sampling ports on October 21, November 19 and December 16, 1998. The analytical results are presented in Table 1.

TABLE 1

VOCs	Influent October	Effluent October	Influent November	Effluent November	Influent December	Effluent December
1,1,1-trichloroethane	26.4 ug/l	ND	23.2 ug/l	ND	26.2 ug/l	0.40 ug/l
cis-1,2-dichloroethene	4.4 ug/l	ND	4.0 ug/l	ND	4.2 ug/l	0.35 ug/l
tetrachloroethane	19.9 ug/l	ND	30.1 ug/l	0.26 ug/l	30.7 ug/l	0.54 ug/l
trichloroethene	28.6 ug/l	ND	30.4 ug/l	0.63 ug/l	30.8 ug/l	0.86 ug/l
1,1-dichloroethane	ND	ND	0.32 ug/l	ND	0.38 ug/l	ND
carbon tetrachloride	ND	ND	ND	ND	ND	ND

Extraction well GSS-EW1 was operated at an average flow rate of approximately 140 gallons per minute (gpm) during the fourth quarter of 1998. The flow rate from GSS-EW2 averaged 126 gpm over the quarter. The total pumping rate has averaged 266 gpm for the fourth quarter of 1998.

The results of the sample analyses listed in Table 1 represent typical influent and effluent concentrations at the GSS, and it has been recorded that approximately 35.94 million gallons of water were processed. Based on these data, total VOCs of approximately 0.33 lb/day in October, 0.35 lb/day in November, and 0.38 lb/day in December were discharged to the atmosphere during this reporting period.

Groundwater Monitoring Plan

Groundwater level measurements were collected on October 15, November 19, and December 16, 1998, as specified in the Groundwater Monitoring Plan and will be used to develop potentiometric surface maps. A semi-annual sampling event for VOCs was conducted in November 1998.

Source Area Soils

A meeting was held on November 28, 1998 with the GSS PRP Technical Committee, the U.S. EPA, and Ohio EPA to discuss U.S. EPA's comments on the EE/CA and Groundwater Flow and Contaminant Fate and Transport Model Report.

Responses to comments and revisions to the Engineering Evaluation/Cost Analysis (EE/CA) and the Groundwater Flow and Contaminant Fate and Transport Model Report were issued to the U.S. EPA on December 2, 1998.

Active or Completed Tasks

The following specific tasks were completed during the reporting period:

- Collected water samples on October 15, November 19, and December 16, 1998, from the treatment system influent and effluent sampling ports.
- Collected water level measurements on October 15, November 19, and December 16, 1998.
- Acid-washed air stripper on October 1, 1998.
- Semi-annual groundwater sampling was conducted in November 1998.

II. DELIVERABLES (THIS PERIOD AND NEXT PERIOD)

CURRENT PERIOD:

<u>Deliverable</u>	<u>Due Date</u>	<u>Delivered</u>
Quarterly Report	January 7, 1999	January 7, 1999

NEXT PERIOD:

<u>Deliverable</u>	<u>Due Date</u>	<u>Delivered</u>
Quarterly Report	April 7, 1999	

III. DIFFICULTIES ENCOUNTERED AND REMEDIAL ACTIONS TAKEN THIS PERIOD

During severe weather on Monday and Tuesday December 21 and 22, 1998, electrical service to the facility was interrupted. The disruption caused extraction well GSS-EW1 to shut down which caused the system to notify M&E. The system was restarted. M&E personnel evaluated the occurrence on December 22, 1998 and assured that the system was operating normally although no cause could be determined. On December 30, 1998 an electrical contractor was enlisted to evaluate the cause of the problem. At the time of the electrical inspection all systems were operating normally and no cause could be found. Brief shut-downs continue with GSS-EW1 and the investigation to rectify the problem continues. The GSS-EW1 shut down has resulted in several hours of reduced pumping time during the last week of December.

IV. ANTICIPATED ACTIVITIES DURING NEXT REPORTING PERIOD

During the next reporting period, the following tasks are scheduled to be performed:

- Collect potentiometric surface data.
- Conduct quarterly sampling of the groundwater monitoring wells.
- Sample treatment system influent and effluent water.
- Scheduled maintenance of the treatment system.
- Acid-wash the air stripper in early January.